Nikon F

the automatic
35 mm reflex
a total system
of photography

the Nikon F

is so closely identified with the professional user, it has come to be known as 'the camera man's camera'. Yet, in a larger sense, the Nikon F is for every man moved by the urge to express himself creatively, who has found fulfillment through photography. And it is especially for the man to whom fine equipment is in itself a source of gratification with the knowledge that its quality goes hand-in-hand with the inevitable quality he will enjoy in the results.

Automatic ease! Speed! Hushed precision! These are your very first impressions as you put the Nikon F through its paces. Your fingers take to it as if you had used one all your life.

As you sight through the finder, you're greeted by a bright, clear image of the scene. Focusing is fast, easy, positive. You compose and shoot.

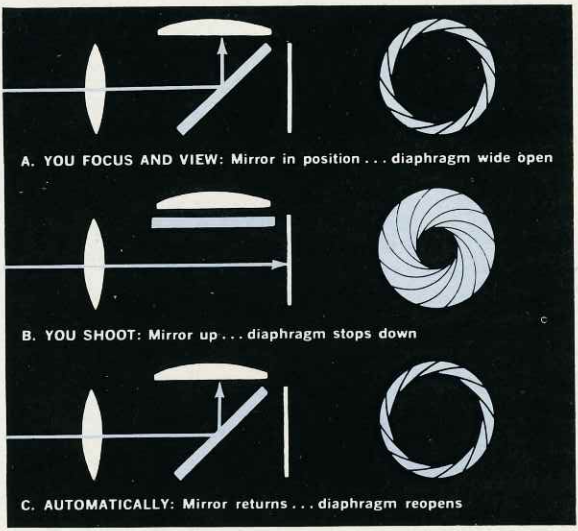
In that instant of exposure, the Nikon F automatically takes over. The lens stops down; the mirror flips up, and the shutter curtain flashes across the film plane. Then, instantly—automatically—the diaphragm reopens, and the mirror snaps back to viewing position.

Except for an almost imperceptible flutter in the finder, and the almost inaudible 'click' of the shutter, you would hardly know the exposure had been made. The image is still visible, still bright and clear, as before.

As you get to know your Nikon more intimately, you find yourself working with even greater ease and confidence. You proceed from picture to picture with astonishing speed. You focus, frame, shoot–focus, frame, shoot–the camera responds smoothly, efficiently, automatically.

INSTANT-REOPEN DIAPHRAGM

The lens is always wide open for focusing and viewing. But, at the instant the shutter is released, the diaphragm automatically closes down to selected 'taking' aperture, and then, instantly, automatically reopens. The design of the Nikon diaphragm is such that even if preset between aperture markings, the automatic action will not disturb the setting. And when interchanging lenses, no attention need be paid to whether the shutter had or had not been previously wound.


A. YOU FOCUS AND VIEW: Mirror in position . . . diaphragm wide open
B. YOU SHOOT: Mirror up . . . diaphragm stops down
C. AUTOMATICALLY: Mirror returns . . . diaphragm reopens

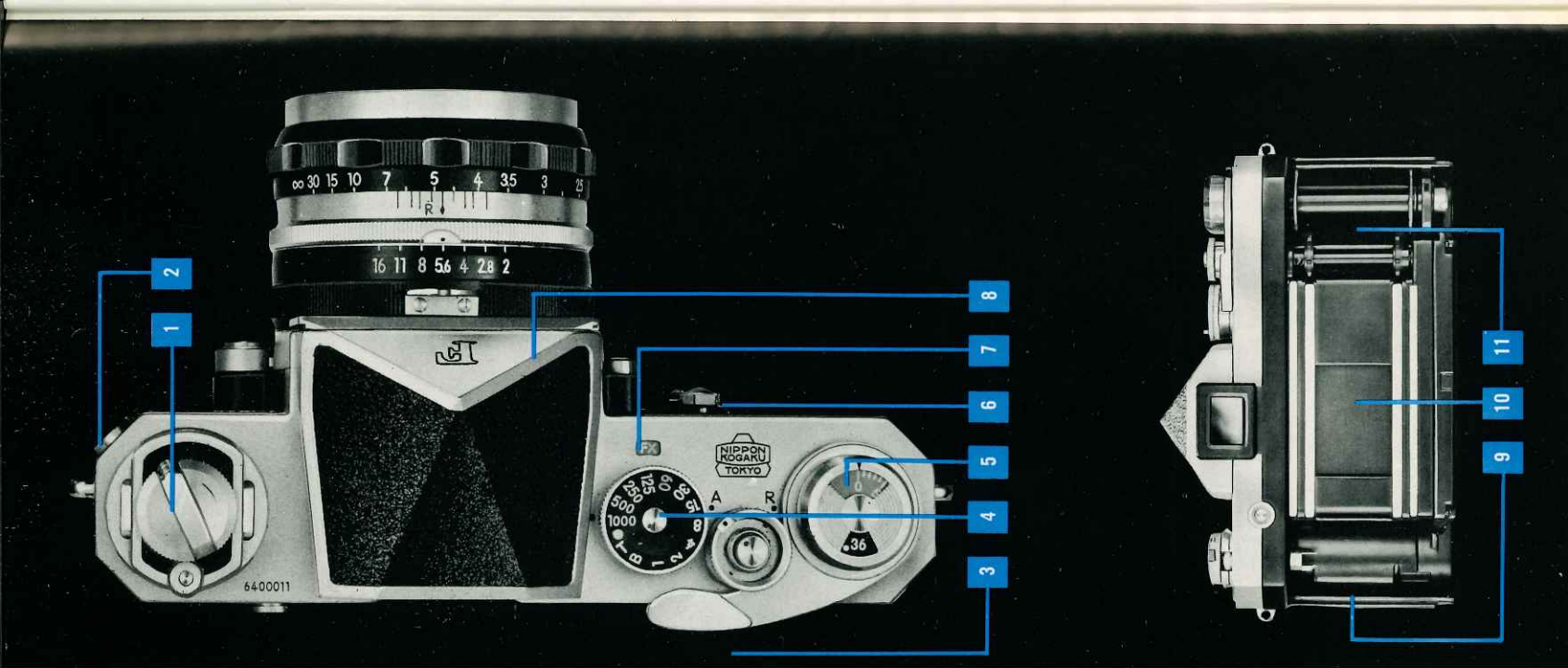
INSTANT-RETURN MIRROR

Whisper-quiet, lightning fast, the mirror flips up for the exposure and then instantly springs back to precise focusing-viewing position. The image never seems to disappear. The action is positive and complete even with the camera held and used upside down.

The mirror action of the Nikon F is so effectively damped, that there is virtually no shock of impact transmitted to the camera body, and virtually no residual vibration to deteriorate image sharpness.

INSTANT-ACTION PREVIEWER

As you press the previewer button, the diaphragm stops down so you can see the depth-of-field at 'taking' aperture. Or you can select the 'taking' aperture on the basis of desired depth-of-field. Release the button, and the diaphragm reopens instantly. The action is entirely independent of the shutter release mechanism, and cannot cause accidental exposure.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other distinctive features that distinguish the Nikon from all other 35mm single-lens reflex cameras

1. **HIGH-SPEED FILM REWIND CRANK**
folds down flush when not in use.

2. **ONE STANDARD TERMINAL FOR FLASHBULBS AND ELECTRONIC FLASH**
does not interfere with viewing and other operations. Also has terminal for cordless flash.

3. **SINGLE-STROKE FILM ADVANCE LEVER**
also winds shutter — prevents double exposures.

4. **NON-SPINNING SHUTTER SPEED DIAL**
does not rotate while shutter is wound or released — speeds: 1 sec. to 1/1000th, T and B.

5. **EXPOSURE COUNTER**
automatically resets to "0". Film Load Reminder for 20 or 36 exposures.

6. **CALIBRATED, DUAL PURPOSE SELF TIMER**
pre-sets from 3 to 10 seconds. An ingenious aid for hand-held exposures at slow speeds.

7. **COMPENSATING FLASH SYNCH CONTROL**
compensates for flashbulb peak characteristics at all speeds to 1/1000th — electronic flash at 1/60th.

8. **INTERCHANGEABLE VIEWFINDER**
eye-level penta-prism finder provides full size image of the entire field even when wearing glasses. Interchanges with accessory waist-level finder and Photomic prism meter.

9. **COMPLETELY REMOVABLE BACK**
for faster loading, easier cleaning.

10. **BALL-BEARING FOCAL PLANE SHUTTER**
thermally compensated to assure accurate, uniform speeds—even under temperature extremes.

11. **FIXED TAKE-UP SPOOL**
precisely aligned to insure even film draw — speeds film loading.

TRIPOD SOCKET IN BODY CASTING
eliminates unnecessary strain on camera back. Centered for better balance.

MIRROR LOCK
secures mirror in 'up' position for deep-set extreme wide angle lenses, such as the new 21mm Nikkor f/4.

FASTEST SHUTTER CURTAIN ACTION
increases stop-action effectiveness, minimizes elongation distortion.

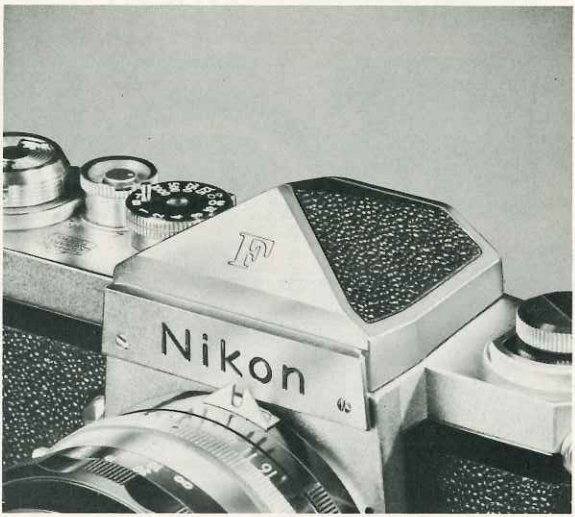
CONVEX, LENTICULAR FOCUSING SCREEN
gives maximum and uniform brightness over the entire field. Has built-in prismatic, split-image rangefinder as a further aid to precise focusing. Interchanges easily with accessory screens — (Illustrated and described elsewhere in this brochure.) Finder field coincides precisely with film area—covers 100% of the image as it will record on the film.

the interchangeable finder system

The Nikon F is acknowledged to be the only 35mm reflex with a precisely accurate finder system. It frames the subject *exactly* as it will be framed on the film. There is no guesswork, and no allowance need be made for cropping. Composition can be planned with complete confidence as to coverage, even with color slides where cropping is impractical.

In addition, the finder and viewing screen of the Nikon F are both interchangeable. The user has three finders to choose from: Standard Prism, Waist-Level, and the new Photomic Prism/Meter with built-in, exposure control. He can interchange these finders at will, in a matter of moments, to suit convenience, preference, or to satisfy some need. He can sight with camera above his head, upside down; at right angles to the subject; or from below. Whether the situation involves conventional, eyelevel viewing or other-than-normal viewing, there is always a way with the Nikon F.

THE STANDARD PRISM FINDER
houses an optically precise roof prism and magnifier eyepiece. It is used at eyelevel, and shows the entire field of the focusing-viewing screen, even with glasses. The image is bright, erect and unreversed, and almost life size with the standard 50mm lens.



THE WAIST-LEVEL FINDER
is especially useful in macro photography and copying, or wherever other-than-eyelevel-viewing is desired. It may be used with the camera overhead or at a low position, or for viewing at right angles to the subject. It is equipped with a self-erecting hood and folding magnifier, and is supplied with case.

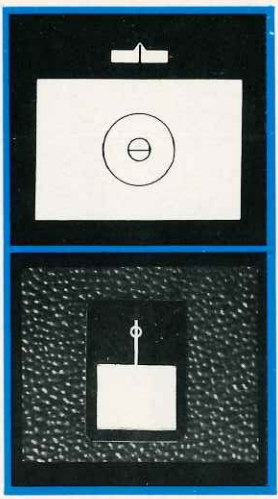
THE PHOTOMIC PRISM/METER FINDER SYSTEM combines roof prism and a sensitive CdS (cadmium sulfide) meter cell in a single housing. This cell is energized by a standard mercury battery, and is capable of measuring as little as 1/10 foot-candle of light.

The Photomic meter covers film speeds from ASA 10 to 1600. It can also be preset to compensate for filter factors up to 4X. A screw-in opaline disc is supplied for taking incident light exposure readings, where desired.

With Auto-Nikkor Lenses the meter couples to the lens diaphragm as well as to the shutter-speed selector dial. When the needle is centered, the shutter-speed/aperture combination is set for correct exposure. This can be seen in the finder, just above the picture field, and in the meter window atop the Photomic housing. You can actually focus, compose and set correct exposure without once taking your eye from the finder.

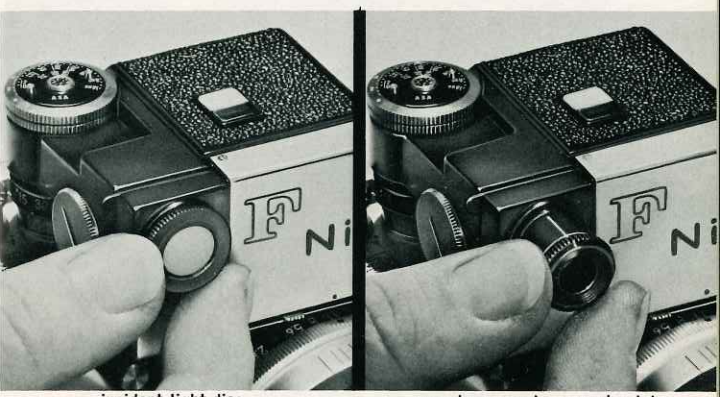
Meter indicator needle as seen in Photomic finder directly above picture field

Meter indicator needle as seen in window on top of Photomic housing



With Standard Nikkor Lenses
the meter is coupled to the shutter-speed selector dial, only. With the dial set for the desired shutter-speed, the needle is centered by moving the diaphragm-coupling lever on the meter. The correct lens aperture will appear in the small window on the back of the Photomic housing, and the diaphragm set accordingly. Or, having first selected the aperture, you obtain the correct shutter speed by rotating the selector dial until the needle is centered.

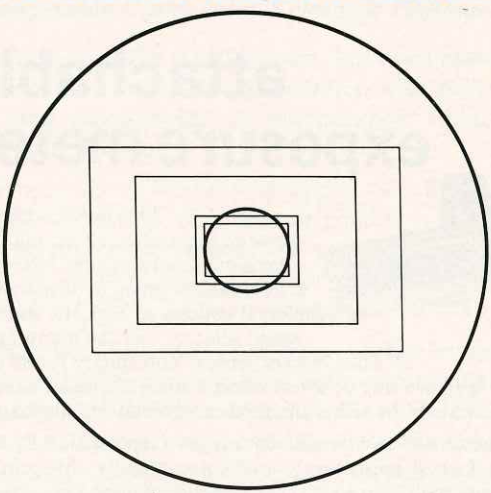
Acceptance Angle Converter Tube
The normal acceptance angle of the Photomic meter light-gathering window is 75°. This is ideally suited for normal and wide angle lenses, under normal conditions. Where a narrower acceptance angle is desired as when using telephoto lenses, or taking 'spot' readings, a screw-in converter tube narrows the angle to about 15°.



incident light disc

acceptance angle converter tube

METER COVERAGE WITH AND WITHOUT CONVERTER TUBE, WITH RELATION TO PICTURE COVERAGE USING 35, 50, 105 AND 135MM LENSES



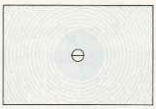
outer circle=meter coverage without converter tube
inner circle=meter coverage with converter tube

Picture coverage is represented by rectangles, largest is for 35mm; next largest, 50mm; then 105mm; and the smallest, 135mm.

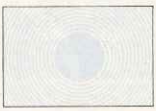
INTERCHANGEABLE VIEWING SCREENS

One of the most ingenious features of the Nikon F is in the facility to interchange focusing-viewing screens. It makes the versatility of this camera truly meaningful. The Nikon F user can choose from among five different screen types, each with its own characteristic pattern, and each offering an advantage in some specific category of applications.

Type A
Fresnel field, matte spot and split-image range-finder—for all-around use.



Type B
Fresnel field and matte spot, but without range-finder—especially suited for use with long focus lenses.



Type C
Matte field and clear spot with cross-hair reticle—for photomicrography and other high magnification requirements where aerial focusing is an advantage.

Type D
All-matte ground surface—for specialized copy photography.

Type E
Fresnel field, matte spot and etched vertical and horizontal lines—for architectural photography and other applications requiring accurate image placement or alignment.

attachable exposure meter

This meter adds the convenience and speed of built-in exposure control to the Nikon F with standard prism or waist-level finder. It couples to both the shutter speed selector and the diaphragm of Auto-Nikkor lenses. You simply rotate the lens-aperture ring or speed selector until the meter needle is bracketed by either the gold or silver forked indicator.

The meter has two sensitivity ranges (represented by the two forked indicators), and automatically shifts from high to low, or vice versa, depending upon light conditions. It covers film speeds from ASA 6 to 4000. An opaline screen is supplied for incident light readings. Also available is an accessory booster which increases meter sensitivity 3.2 times for use in extremely dim light.

interchangeable Nikkor lenses

Incomparable Optics from 8 through 1000mm.

No name, over the past 10 years, has been more frequently or more closely identified with progress and development in photographic optics than that of Nikon.

Whichever criterion you apply — variety, quality, versatility, inventive originality — this inevitable fact stands out: *the current complement of interchangeable Nikkor lenses for the Nikon F is without equal in photographic history.*

There are more than 23 of these Nikkor lenses for the Nikon F, ranging from 8mm super-wide, wide angle to 1000mm super telephoto. Widely acclaimed by the most critical, discriminating users, they are universally acknowledged to be the finest lenses ever made available for 35mm photography. Some of them are so significantly unique in concept, in design and in application that special descriptions are warranted.

PC-NIKKOR 35MM f3.5

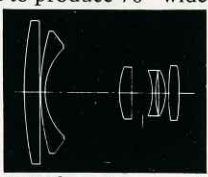
An unusual lens, ingeniously designed, the PC-Nikkor provides 35mm photography with controls never before possible, except with large cameras equipped with rising, falling and shifting lens standards.

For example, in photographing a building, the camera is often tilted to include the upper structure. This tilting causes the vertical lines to converge and the building to appear to be leaning back. With large view cameras, the camera back is kept parallel to the building. The upper portion is included by raising the lens.

In the PC Nikkor, a micrometer lead-screw control permits moving the optics off-center by as much as 11mm. The effect is the same as is produced on a view camera having a 3-inch rise and equipped with a 9½-inch lens.

The entire lens mount rotates so that the correction can be applied in any direction — horizontally, vertically or diagonally. There are 12 click-stop positions at 30° intervals.

The PC-Nikkor can also be used to produce 76° 'wide screen' pictures, in either the vertical or horizontal, retaining the original dimension in the other plane (similar to the effect of an anamorphic lens). First, one picture is taken with the lens shifted full 11mm. Then, the lens is rotated 180°, and a second, separate picture is taken. The two pictures, when joined, produce a panoramic shot with uniform perspective.



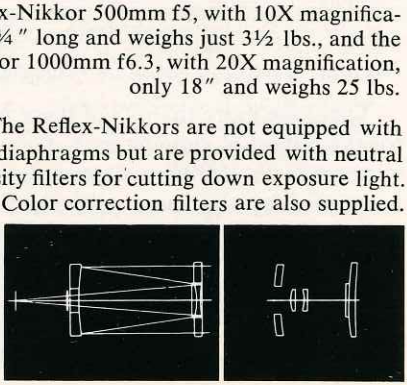
Use of the Type E viewing screen is recommended with the PC-Nikkor. Its etched pattern of horizontal and vertical lines helps align the image more precisely and easily.

REFLEX-NIKKOR LENSES

These remarkable mirror-lens systems are based on design principles used in large astronomical telescopes. In conventional refractor lenses, the light follows a single path and direction. In catadioptric systems the light doubles back, thus travelling the same distance in less space. This leads to surprising compactness and reduced weight.

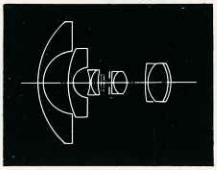
Thus, the Reflex-Nikkor 500mm f5, with 10X magnification is only 7¾″ long and weighs just 3½ lbs., and the Reflex-Nikkor 1000mm f6.3, with 20X magnification, only 18″ and weighs 25 lbs.

The Reflex-Nikkors are not equipped with diaphragms but are provided with neutral density filters for cutting down exposure light. Color correction filters are also supplied.



FISHEYE-NIKKOR 8mm F8

A unique optical achievement, this lens is said to have a picture angle of 180°. But, actually it 'sees' a full hemisphere — everything in front, above, below and all around it, and reproduces a circular composition on the film. Despite its extreme angle, it is remarkably sharp, and highly corrected for color.



The Fisheye-Nikkor aids in many scientific applications and in special-effects photography. Six filters are built into the lens, on a rotating turret: UV haze, medium yellow, deep yellow, orange, red and green. The lens is also supplied with an optical, centering finder.

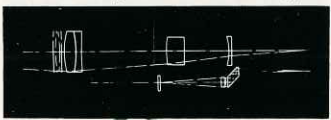
AUTO MEDICAL-NIKKOR 200mm f5.6

Equally typical of Nikon ingenuity and resourcefulness, this unusual lens reduces lab photography problems to routine simplicity. It is designed primarily for close-ups and for photographing cavities.

Instead of conventional focusing, the lens provides for 11 settings based on reproduction ratios from 1/15th actual size to 3X magnification. The camera is then used at the distance from the subject at which the image is sharp in the finder. The magnification setting also 'programs' the aperture at which the exposure will occur. The working distances, depending on reproduction ratio, range from 11 feet to 2¾ inches.

The lens incorporates its own light sources: 4 small incandescent bulbs to illuminate the picture area for viewing ease, and a shutter-synchronized, electronic ring-light flash which gives uniform, shadowless light for the exposure. Battery and AC power-packs are supplied together with a compartment case for the camera and lens, auxiliary lenses and power pack.

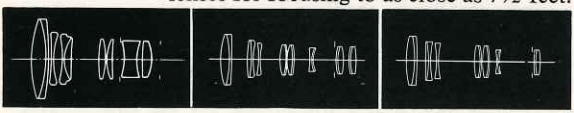
The diaphragm automatically stops down to correct aperture, automatically compensating for the exposure increase required at each magnification. The lens also embodies facilities for identifying the film as to frame number or magnification ratio.



AUTO-NIKKOR ZOOM LENSES

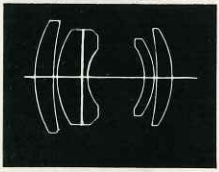
These remarkable lenses provide all the advantages of lens interchangeability without the need to change lenses. With one lens and from one shooting position, you can command a wide range of picture angles and magnifications. Without moving camera or subject, you can enlarge or diminish image size for exactly the effect desired. And because the focal length transitions are smooth and fast, you can 'follow-zoom' moving action to maintain constant image size in sequence pictures. Once in sharp focus at one focal length, your Nikkor-Zoom is in sharp focus at all focal lengths. All have automatic, instant-reopen diaphragms.

Only three Auto-Nikkor Zoom lenses are needed to cover from medium wide angle to 12-power telephoto: 43 to 86mm f3.5; 85 to 250mm f4; and 200 to 600mm f9.5. The latter two are supplied with auxiliary close-up lenses for focusing to as close as 7½ feet.



AUTO MICRO-NIKKOR 55mm f3.5

The resolving power of this unusual lens is almost incredible. As suitable for normal photography as for extreme closeups, the dual-helical system in which this lens is mounted, gives it an uninterrupted focusing range from infinity to 1:2 reproduction ratio. A coupling tube supplied with the lens further extends this to 1:1. The automatic diaphragm action remains operative throughout the entire range, also automatically compensating for the exposure increase required at each magnification all the way to 1:1.



Lens	Diaphragm Action	Minimum Aperture	Picture Angle	Closest Focus	No. of Elements	Filter Size
8mm f8 Fisheye	Manual	f22	180°	fixed focus	9	6 built-in filters
21mm f4	Manual	f16	92°	36″	8	52mm
28mm f3.5	Automatic*	f16	74°	24″	6	52mm
35mm f2.8	Automatic*	f16	62°	12″	7	52mm
35mm f3.5	Pre-set	f32	62°	12″	6	52mm
50mm f2	Automatic*	f16	46°	24″	7	52mm
50mm f1.4	Automatic*	f16	46°	24″	7	52mm
55mm f3.5 Micro	Automatic*	f32	43°	4″	5	52mm
105mm f2.5	Automatic*	f22	23°20′	4′	5	52mm
105mm f4	Pre-set	f22	23°20′	33″	3	34.5mm
135mm f3.5	Automatic*	f22	18°	5′	4	52mm
135mm f4	Pre-Set°	f22	18°	∞ to 1:1	4	43mm
180mm f2.5	Pre-set†	f32	13°40′	7′	6	series 9
200mm f4	Automatic*	f22	12°20′	10′	4	52mm
200mm f5.6 Medical	Automatic*	f45	12°20′	2¾″	4	—
250mm f4	Pre-set†	f32	10°	10′	4	series 9
350mm f4.5	Semi-auto†	f22	7°	13′	3	series 9
500mm f5 Reflex	Manual	f10	5°	50′	Mirror Lens System	39mm
1000mm f6.3 Reflex	Manual		2°30′	100′	Mirror Lens System	built-in filters
43-86mm f3.5 Zoom	Automatic*	f22	58° to 28°	4′	9	52mm
85-250mm f4 Zoom	Automatic*	f16	28°30′ to 10°	13′	15	series 9
200-600mm f9.5 Zoom	Automatic	f32	12°20′ to 4°	13′	13	series 9

*couples to exposure meter and Photomic

†requires Rotating Adapter Coupler for use with Nikon F

°used only with bellows. Requires BF adapter.

All lenses are supplied with front caps. Telephoto lenses from 105mm up include lens hoods.

Nikkor lenses in 'F' mounts can be used on 16mm 'C' mount movie cameras by means of Nikon 'C' mount adapters.

close-up, macro, micro and astro-photography

The boundless versatility of the Nikon F system is best demonstrated by the ease with which it lends itself to the requirements of photography in all its phases. There is hardly an application arising in science, industry, education, journalism, law enforcement, or in the art or hobby of photography, that isn't within the capability of this all-encompassing system . . . from micro-photography to astro-photography . . . from the infinitesimal to the infinite!

Special equipment and accessories, designed with the same purposeful precision as the camera itself, provide the Nikon F with facilities for an almost limitless number of applications.

The *interchangeable viewfinder system* is fully described elsewhere in this booklet. Yet, it deserves special mention under this category. The freedom, convenience and flexibility this feature brings to these applications are unique with the Nikon F. The Nikon F user is not limited to any one type of finder or viewing screen. He can choose to suit the specific requirement, and draw upon and enjoy the peculiar advantages offered by each in meeting the need at hand.

MODEL E EXTENSION TUBE

This convenient close-up device utilizes the automatic stop-down feature of the Auto-Nikkor lenses for greater ease and speed of work. Inserted between camera body and lens, this extension tube accepts any Nikkor lens from 28mm through 135mm, the 200mm and the 500mm. With Auto-Nikkor lenses, a plunger opens the diaphragm to maximum aperture for viewing and focusing. For the exposure, the plunger is released, and the diaphragm closes down to the preselected taking aperture. With the 50mm lens, the reproduction ratio ranges from 1:2.7 to 1:3.7 with one tube. Two or more extension tubes can be combined for greater magnification.

BELLOWS FOCUSING ATTACHMENT

This is the most flexible single accessory for close-up and macro-photography with the Nikon F. It accepts all Nikon F lenses. The ratio of reproduction is determined by the focal length of the lens used and the extension of the bellows. With the normal 50mm lens the range is from 1:1 (life-size) to 3.5X magnification. Using the bellows attachment with the 135mm f4.0 Short Mount Nikkor lens (plus B-F adapter) provides a continuous focusing range from 1:1 reproduction to infinity. The bellows attachment has its own tripod socket. It can be used on any support, or with a Repro-Copy Outfit. Its rotating camera mount makes it easy to switch from horizontal to vertical format, and vice versa.

B-R MACRO RING

Permits any lens with 52mm front thread to be mounted on Bellows Attachment in reverse position. Provides optimum optical performance of lens at high reproduction ratios.

SLIDE COPYING ADAPTER

This accessory provides the simplest and most accurate means for making duplicates or negatives of positive transparencies—color or black-and-white. It is used in combination with the Bellows Focusing Attachment, and it accepts 35mm transparencies in slide mounts or in strips. Material to be copied can be reproduced 1:1, or a section can be enlarged to full 35mm format.

AUTO MICRO-NIKKOR 55mm f3.5, AUTO MEDICAL-NIKKOR 200mm f5.6.

No enumeration of Nikon F close-up eqiupment would be complete without reference to these lenses, designed specifically for these applications. They are each fully described in the NIKKOR LENS section of this booklet.

NIKKOR 135mm f4.0 LENS IN SHORT MOUNT

The greatest effectiveness of this lens is obtained when used with the Bellows Attachment and B-F adapter. Its focusing range then extends from infinity to 1:1 magnification ratio. It covers an 18° angle of view, and its pre-set diaphragm offers stops from f4.0 to f22.

AUXILIARY CLOSE-UP ATTACHMENTS

Simple meniscus lenses in 52mm screw-in mounts* readily adapt Nikon F for copying and close-up work. They require no compensation in exposure. Available in three progressively increasing powers for focusing as close as 10¼". No. 0 and Nos. 1 and 2 for 50mm and other lenses. May also be used in combination.

REPRO-COPY OUTFIT

Converts the Nikon F into a completely integrated close-up system for reproducing flat copy or photographing objects and specimens of varying sizes and shapes. The outfit consists of a sturdy, 2-piece upright column, and a rigid sliding arm and bracket to which the camera and other accessories are secured.

A Repro-Copy Outfit may be used with Bellows Attachment, Extension Tubes, Close-Up Lenses, Microflex, or any of the other special accessories. The mounting bracket on the sliding arm swings 90° and can be locked in any position for photographing material mounted on a wall, as well as on the baseboard.

Two models are available: Model PFB is supplied with a laminated hardwood baseboard; Model PFC, with a laminated, hardwood carrying case which unfolds to serve as a baseboard, and to hold the various parts of the outfit when dismantled.

**52mm screw-in fits all lenses from 21 to 135mm plus 200mm f4 (except 105mm f4 lens)*

MICROFLEX

A precision unit representing the ultimate approach to critical photomicrography. Fits any standard microscope eyepiece tube, and attaches to bayonet lens flange of the Nikon F.

shown with ocular eyepiece

High-power ocular eyepiece is used for focusing and observing the microscope image at high magnifications, or when doing dark-field, phase-contrast or phase-interference photomicrography. This ocular interchanges with a fine-ground matte screen supplied with 7X magnifier for use in low magnification work with 10-power objectives or less.

shown with matte screen

Internal reflecting prism diverts path of image rays to eyepiece or matte screen where orientation of specimen in outlined picture area can be observed, and adjustments made on the stage. The Microflex also includes its own self-setting, synchro shutter with speeds from 1 second to 1/300th plus 'T' and 'B'. A single cable release swings the prism out of the camera path, and trips the shutter in one continuous action. There is no detectable vibration introduced.

MICROSCOPE ADAPTER

This simple tube utilizes the viewing system and shutter of the Nikon F. It adapts the camera to any standard microscope. A Type C focusing screen is supplied to replace the regular camera viewing screen, plus three contrast filters.

TELESCOPE ADAPTER

In one quick step, the Nikon F goes from micro-organisms to outer space. The Telescope Adapter fits the camera to a 2″ or 2½″ telescope for precision-sharp astro-photography. This adapter is supplied with 6 filters and Type B viewing screen.

automatic fire power

ELECTRIC MOTOR DRIVE

The simple addition of the motor drive to a Nikon F results in a unique, automatic instrument that opens a new vista of picture-taking possibilities.

The motor-equipped Nikon F can be fired in-hand or remotely by intervalometer photocell relay, or other triggering device . . . wired or by radio control. The motor automatically makes the exposure, advances the film and winds the shutter. It can be preset to fire single shots, bursts of two or more, or through an entire film load—at rates up to 3 (and even 4) shots per second. The automatic mirror and diaphragm remain fully operative at up to 3 per second.

The value of the motor drive in news and sports photography, and in action sequences generally, is self-evident, as is its use in time-lapse study, motion analysis and surveillance.

Less obvious, but no less important, is its facility to capture the elusive moment, the fleeting expression, the essence of the picture situation which so often arises the moment after the shutter was fired. Whether you're stalking one picture or the whole sequence, the unrelenting fire pattern of the motor is sure to bag your quarry.

There are two motor drives for the Nikon F: one for standard film cassettes, the other for special 250-exposure cartridge loads. Both are powered by 8 'C' batteries contained in a compact case with shoulder strap.

MOTOR DRIVE ACCESSORIES

PISTOL GRIP
Provides firm camera support for hand-held shooting, especially with long focus lenses. With the micro-switch, the hand-grip trigger operates the motor drive electrically, both for single and sequence shots. A standard coupling cable release is available for use of pistol grip and camera without motor.

MICRO SWITCH
Attaches to pistol grip. Operates motor-equipped Nikon F, electrically.

BATTERY TESTER
Miniature voltmeter instantly checks condition of motor drive batteries. Plugs into battery case and indicates voltage as well as the point when batteries should be replaced.

30-FOOT MOTOR EXTENSION CORD
For remote operation of motor-equipped Nikon F in industrial, candid, wild-life photography, etc.

WIRELESS CONTROL

Permits you to operate your motor-equipped Nikon F, just as space satellites are controlled from earth.

Your 'fire' command is relayed to the camera from as far as 2 miles away, across open country or through buildings. Industrial operations can be photographed with timed or programed impulses from a control booth, or actuated by any automatic device. Dangerous or inaccessible areas become photographically approachable. Security procedures in plants and research laboratories can be reinforced by the unfailing dependability of radio controlled Nikon photography.

With the wireless control, as many as 4 motor-driven Nikon F cameras can be operated, either individually or in any desired combination. Selection of the cameras to be fired is determined by the frequency of the radio signal impulse.

INTERVALOMETER

An instrument that enables the Nikon F with motor drive to be fired at predetermined intervals, automatically. Time-lapse photography, as this technique is called, finds application in virtually every field of research and development. The Intervalometer connects to the Nikon motor drive via an accessory Relay Box.

RELAY BOX

Used for remote operation of the Nikon F motor drive. Can be triggered manually at relay box, or indirectly by intervalometer, or by remote switch wired to box, or by radio control. Also permits simultaneous operation of several motor-equipped cameras.

Nikon F accessories

OPTICAL GLASS FILTERS

Optical quality is as indispensable in filters as in lenses. Only the finest optical glass is employed. Precision ground, polished to plano-parallel flatness and strain-free mounted, these filters are free from striation, stress, or other flaws which might deteriorate image quality. They are available in yellow, green, red, orange, 85C, 82A, skylight and UV haze, also neutral density ND4X and ND8X in 52mm, screw-in mounts*, each with case. Other sizes are available at Nikon dealers.

POLARIZING FILTER

The polarizing filter screens out surface-reflected light without affecting color values. In rotating 52mm screw-in mount*, with leather case.

52mm ADAPTER RING

Screw-in design accepts standard Series 7 filters*.

PANORAMA HEAD

Mounts between camera and tripod, and accurately spaces series of exposures that will join as single panorama picture covering up to 360°. Click-stop positions for 35, 50 and 105mm lenses, and color-coded stop indicators for 28, 85 and 135mm lenses. Bubble level accessory available to insure that camera and Panorama Head are perfectly horizontal.

SNAP-ON LENS HOODS & FRONT LENS CAPS*

Special design combines the ease of "slip-ons" with the secure holding power of "screw-in" units. Lens hoods are calculated for each focal length to give maximum protection without danger of vignetting. Can be reversed on lens for compactness in carrying.

REAR LENS CAPS AND BODY CAPS

These are available to protect and keep lenses and camera body dust-free when handled or stored separately.

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FILM CASSETTES

All-metal, easy to load with standard bulk film. Cost of the cassettes is quickly defrayed by economy of bulk film. Also, shorter lengths of film can be loaded for assignments requiring fewer than 20 exposures. Cassettes are recommended for use with motor drive. Available in 36 and 250-exposure capacity, the latter for the 250-exposure motor drive only.

EVEREADY CAMERA CASES

Model CC477 top-grain, brown cowhide, lined with velveteen. Accepts Nikon F Photomic or Nikon F with exposure meter. Supplied with shoulder strap.

Model CC478 Same as cc477, but in black.

Model CC476 Similar, to cc477, but black, semi-soft leather.

DELUXE COMPARTMENT CASES

Top-grain, cowhide, velveteen-lined cases with fitted compartments. Supplied with straps and non-slip shoulder pads.

Model CC490 For camera with normal size lens, meter, BC-5 flash unit, and accessories.

Model CC491 For camera with normal size lens, three additional lenses, meter, and accessories.

Model CC492 For camera with normal size lens, one additional lens, meter, motor drive and battery case, and accessories. Equipped with outer pouch.

Model CC493 For camera with normal size lens, two wide angle lenses and one telephoto, meter and booster, waist-level finder, filters, and accessories. Equipped with outer pouch.

LENS CASES

Reinforced leather cases are available for most lenses. The 1000mm Reflex-Nikkor is supplied with metal case. Some have soft cases. Consult your dealer regarding type available. Rigid, transparent plastic cases are also available for 28, 35, 50 105 and 135mm lenses.

FLASH UNITS

Model BC-5 A compact, efficient BC unit with folding-fan reflector. Used with flash coupler, it makes direct contact with camera terminals eliminating need for connecting cord. Reflector tilts for bouncelight effects. Built-in exposure calculator and test bulb. Supplied with case.

Model BC-6 Powerful, ultra-compact BC unit. Accepts AG-1, M2 and M5 bulbs without adapter. Built-in tester for checking bulb, 'charge' and circuit, also built-in exposure calculator. With case.

Flash Unit Coupler

Required with BC-5 Flash Unit for cordless operation. Also required for use of Nikon F with other type compact flash units equipped with standard accessory shoe brackets.

CORRECTION EYEPIECE ATTACHMENTS

Ground to specific powers, these attachments enable wearers of glasses to focus and view without glasses. Slip over the eyepiece of the Nikon F standard prism finder for Photomic system.

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